Each lead has same dimensions

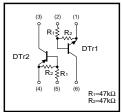
Each lead has same dimensions

Power management (dual digital transistors) EMD12/UMD12N

Features

1) Both the DTA144E and DTC144E in a EMT or UMT package.

Equivalent circuit



•Package, marking, and packaging specifications

Туре	EMD12	UMD12N
Package	EMT6	UMT6
Marking	D12	D12
Code	T2R	TR
Basic ordering unit (pieces)	8000	3000

Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Supply voltage	Vcc	50	V	
Input voltage	Vin	40	V	
	VIN	-10		
Output current	lc	100	mA	
	lo	30	mA	
Power dissipation	Pd	150(TOTAL)	mW *1	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55~+150	°C	

*1 120mW per element must not be exceeded. PNP type negative symbols have been omitted

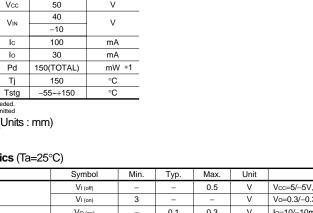
•External dimensions (Units : mm)

•Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Input voltage	VI (off)	-	-	0.5	V	Vcc=5/-5V, lo=100/-100µA
	VI (on)	3	-	-	V	Vo=0.3/-0.3V, Io=2/-2mA
Output voltage	Vo (on)	-	0.1	0.3	V	lo=10/-10mA, lı=0.5/-0.5mA
Input current	h	-	-	0.18	mA	Vi=5/-5V
Output current	IO (off)	-	-	0.5	μA	Vcc=50/-50V, VI=0V
DC current gain	Gi	68	-	-	-	Io=5/-5mA, Vo=5/-5V
Transition frequency	fτ	-	250	-	MHz	Vce=10/-10V, Ie=-5/5mA, f=100MHz
Input resistance	R1	32.9	47	61.1	kΩ	-
Resistance ratio	R2/R1	0.8	1	1.2	-	-



Rev.A 1/3



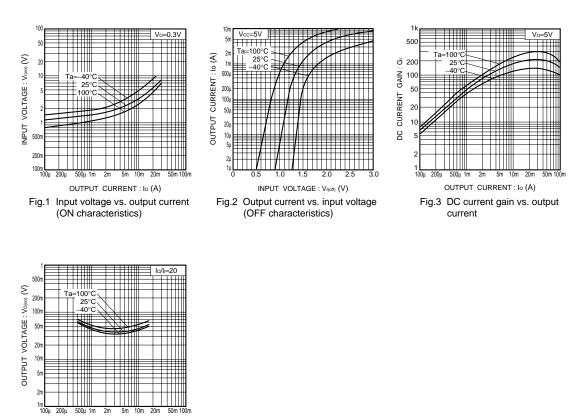
EMD12

ROHM : EMT6

ROHM : UMT6 EIAJ : SC-88 <u>ن</u>ور

UMD12N

Transistors

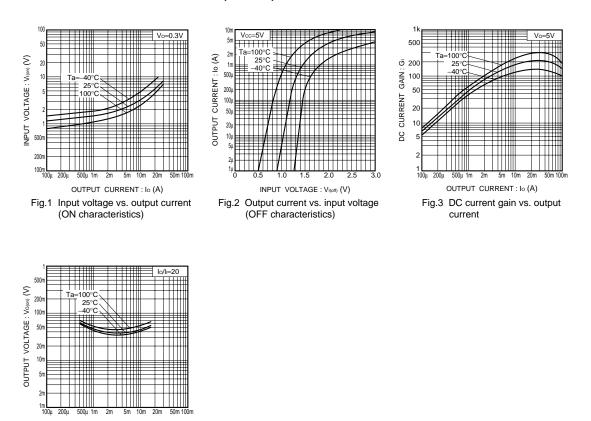


•Electrical characteristics curves DTr1 (DTC144E)

OUTPUT CURRENT : Io (A) Fig.4 Output voltage vs. output current

rohm

Transistors



•Electrical characteristics curves DTr2 (DTA144E)

OUTPUT CURRENT : Io (A) Fig.4 Output voltage vs. output current

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